
TW@N
THIS WEEK @ NASA

1
00:00:00,080 --> 00:00:02,040
How it looks to land on Mars …

2
00:00:02,040 --> 00:00:03,840
Previewing space station spacewalks …

3
00:00:03,840 --> 00:00:07,600
And supplies and cargo delivered\h
for the station crew … a few of\h\h

4
00:00:07,600 --> 00:00:09,920
the stories to tell you about – This Week at NASA!

5
00:00:12,800 --> 00:00:19,280
Newly released high-definition videos captured by\h
cameras onboard our Mars 2020 Perseverance rover\h\h

6
00:00:19,280 --> 00:00:24,960
show the final seven miles of the spacecraft's\h
entry, descent, and landing on Mars. The uniquely\h\h

7
00:00:24,960 --> 00:00:29,760
amazing views, including the look down at\h
the separation of the protective heat shield,\h\h

8
00:00:29,760 --> 00:00:35,360
and the upward views during deployment of the most\h
massive parachute ever sent to another world …
\h

9
00:00:35,360 --> 00:00:40,400
“Are the closest you can get to landing on\h
Mars without putting on a pressure suit.”

10
00:00:41,040 --> 00:00:45,040
While a microphone on the rover did not\h
collect any usable data during the landing,\h\h

11
00:00:45,040 --> 00:00:49,520

after Perseverance touched down, it did\h
pick up mechanical sounds made by the\h\h

12
00:00:49,520 --> 00:00:57,840
rover operating on the surface, and even\h
a few audible seconds of a Martian breeze.

13
00:00:59,520 --> 00:01:04,560
Also released with the videos and audio was the\h
first panorama of the rover’s landing location,\h\h

14
00:01:04,560 --> 00:01:09,600
taken by the two Navigation Cameras on its\h
mast. These were all followed up three days\h\h

15
00:01:09,600 --> 00:01:13,120
later with the release of the rover’s\h
first complete, high definition look\h\h

16
00:01:13,120 --> 00:01:19,440
at its surroundings - a 360-degree panorama\h
from its Mastcam-Z instrument. Perseverance\h\h

17
00:01:19,440 --> 00:01:24,640
will use its suite of instruments to search for\h
signs of past microbial life, collect and leave\h\h

18
00:01:24,640 --> 00:01:29,920
samples of rock and soil for a future mission\h
to bring back to Earth, and test technologies\h\h

19
00:01:29,920 --> 00:01:36,880
to help pave the way for future human exploration\h
of Mars. Find out more at nasa.gov/perseverance.\h

20
00:01:36,880 --> 00:01:38,800
\h
We previewed two\h\h

21
00:01:38,800 --> 00:01:44,320

International Space Station spacewalks during\h
a Feb. 24 briefing at our Johnson Space Center.\h\h

22
00:01:44,320 --> 00:01:50,640
During the first spacewalk on Feb. 28, our Kate\h
Rubins and Victor Glover will prep for solar array\h\h

23
00:01:50,640 --> 00:01:56,800
upgrades later this year. Rubins will then go back\h
outside on March 5 with Japan’s Soichi Noguchi\h\h

24
00:01:56,800 --> 00:02:01,040
to vent ammonia from the station’s thermal\h
control system, along with other tasks.\h

25
00:02:03,280 --> 00:02:07,920
The Northrop Grumman “SS Katherine Johnson”\h
Cygnus cargo spacecraft arrived at the space\h\h

26
00:02:07,920 --> 00:02:14,320
station Feb. 22, two days after launching from\h
our Wallops Flight Facility. It delivered about\h\h

27
00:02:14,320 --> 00:02:19,040
8,000 pounds of scientific research, crew\h
supplies, and hardware to the station. The\h\h

28
00:02:19,040 --> 00:02:24,480
spacecraft is named after late NASA mathematician,\h
Katherine Johnson – one of the women featured in\h\h

29
00:02:24,480 --> 00:02:29,520
the book and movie, “Hidden Figures,” who made\h
significant technical contributions to some of\h\h

30
00:02:29,520 --> 00:02:36,240
NASA’s earliest and most historic spaceflights.
On Feb. 26, our NASA Headquarters building in\h\h

31
00:02:36,240 --> 00:02:41,733

Washington, D.C. was officially named in honor\h
of Mary W. Jackson, the agency’s first African\h\h

32
00:02:41,733 --> 00:02:47,440
American female engineer, who was also featured\h
in “Hidden Figures.” Acting NASA Administrator\h\h

33
00:02:47,440 --> 00:02:52,240
Steve Jurczyk led the ceremony, joined by\h
Jackson’s family and other special guests,\h\h

34
00:02:52,240 --> 00:02:56,560
with the on-site attendance limited due\h
to the ongoing coronavirus pandemic.

35
00:02:56,560 --> 00:02:57,360
“3-2-1 … (applause)”

36
00:03:02,880 --> 00:03:07,120
The ceremony featured the unveiling of a\h
building sign with Jackson’s name, and several\h\h

37
00:03:07,120 --> 00:03:12,560
video tributes including poet Nikki Giovanni\h
reading from her poem “Quilting the Black-Eyed\h\h

38
00:03:12,560 --> 00:03:17,600
Pea,” which is about space and civil rights.\h
Learn more about the contributions of Jackson,\h\h

39
00:03:17,600 --> 00:03:22,080
Katherine Johnson and other NASA hidden and\h
modern figures at nasa.gov/modernfigures.

40
00:03:23,680 --> 00:03:28,400
Our Parker Solar Probe captured some\h
surprising views of Venus during a close flyby\h\h

41
00:03:28,400 --> 00:03:35,360
in July 2020. The image shows Aphrodite Terra, the\h

largest highland region on the Venusian surface.\h\h

42
00:03:35,360 --> 00:03:40,240
The team is surprised because, based on the\h
imaging device’s capabilities, they only expected\h\h

43
00:03:40,240 --> 00:03:45,360
to see clouds – not clear down to the planet’s\h
surface. They are now trying to determine if\h\h

44
00:03:45,360 --> 00:03:50,640
the imager has unforeseen capabilities, which\h
would provide new opportunities to study dust\h\h

45
00:03:50,640 --> 00:03:56,240
around the Sun and in the inner solar system. The\h
mission focus is on the Sun, but it makes several\h\h

46
00:03:56,240 --> 00:04:01,040
passes of Venus – using the planet’s gravity\h
to help it fly closer and closer to the Sun.